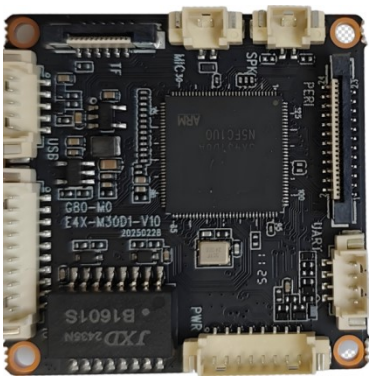
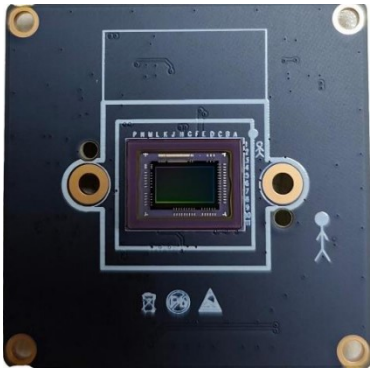
E7880G-M0-15

Features



- 1/2.7" 8MP CMOS
- H.265+, H.265/H.264, dual stream
- Supports HDR, backlight compensation, highlight compensation, and 3D digital noise reduction
- Supports image flip, mirror, and rotation
- Supports dual light and smart dimming
- Supports external TF card, WiFi
- Supports 1 serial port, 1 I/O input, and 1 I/O out, expandable to multiple channel



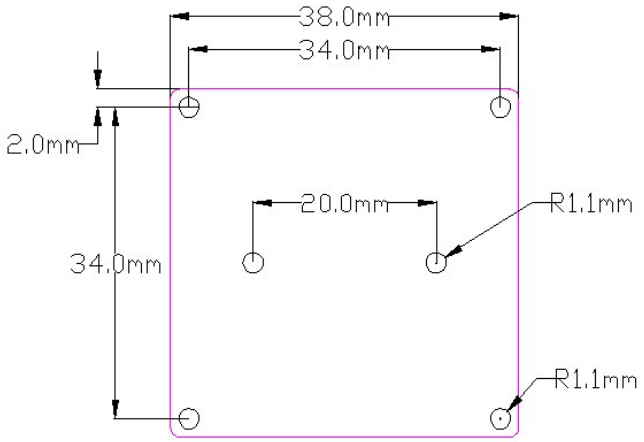
- Supports accurate human detection and vehicle detection; Applicable to scenarios including electronic fence, intrusion detection and on-duty detection etc.
- Supports privacy mask
- Supports voice intercom, voice broadcast, custom voice
- ONVIF Profile S, T, G, M
- Plug-in free for mainstream browsers
- Suppors Browser-based Mesh CMS

Specifications

Model	E7880G-M0-15
Main Chip	37X, built-in 1T computing power
Image Sensor	8MP, 1/2.7" CMOS
Image Output	Main stream 30FPS（3840*2160, 2560*1440, 2304*1296, 1920*1080, 1280*720）
	Sub stream 30FPS（640*360, 352*240）
	Image effects: Auto white balance, digital wide dynamic range, backlight compensation, and adjustable hue/brightness/contrast/saturation/sharpness
Audio	Standard: 1-channel Line In input, 1-channel built-in amplifier output (8Ω1W/4Ω2W)

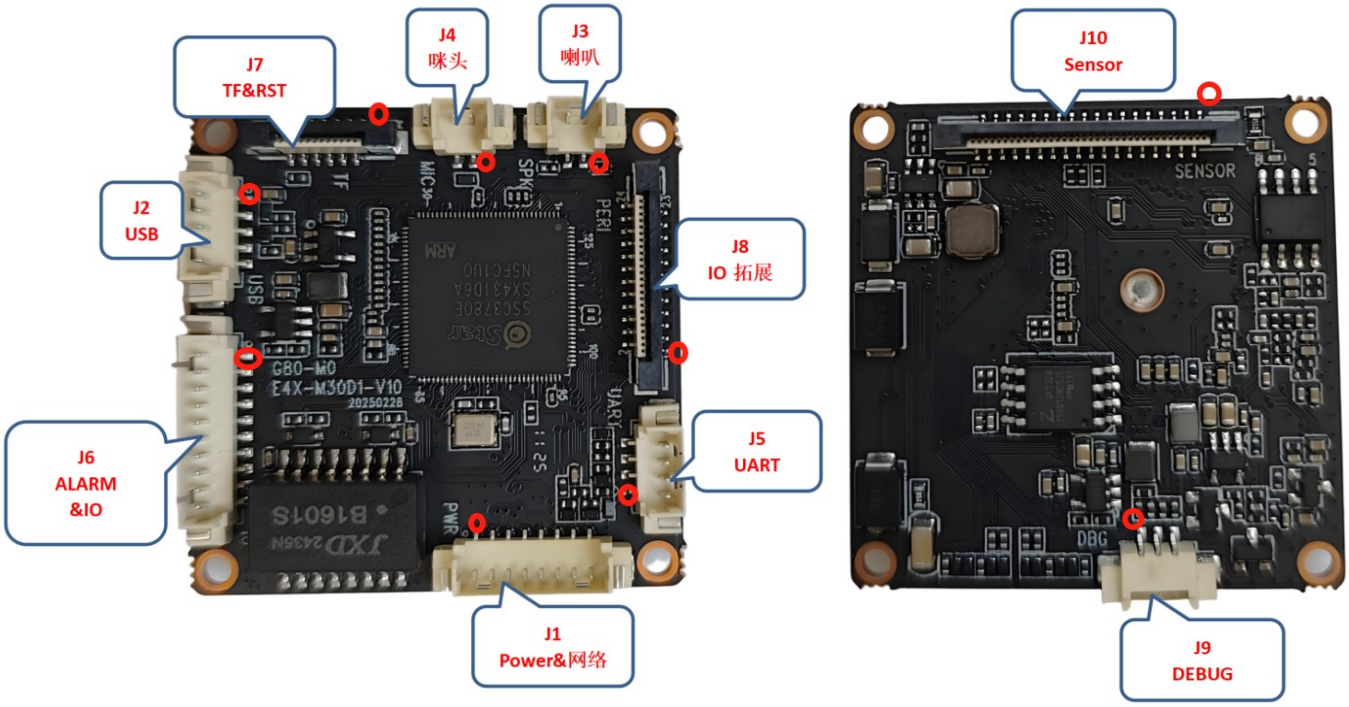
	G.711 codec; supports two-way audio intercom, audio-video synchronization, and echo cancellation
Network	1 x RJ45 10/100 M self-adaptive Ethernet port
TF	1× TF card slot, supports up to 512 GB
WIFI	Supports Wi-Fi 4/6(On-Board Not Equipped), dual-band, 802.11b/g/n/ax
Reset Key	Supports hardware reset
Indicator	Supports network connection status LED
IO Input/Output	1 x Input, 1 x Output, expandable to multiple channels
Network Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, IPv4, IPv6, UDP, SSL/TLS, SNMP, ARP, WebSocket, ONVIF
Standard	Human & vehicle classification (including non-motor vehicles), boundary detection, intrusion detection, region entering detection, region exiting detection and sound alarm linkage
Optional	Face capture, face recognition, pet detection, lane violation control, license plate recognition, baby detection, abnormal sound detection, occlusion detection, electronic fence, off-post detection, people counting, custom voice alarm
Power Supply	DC 12V
Operating Conditions	-30℃～+65℃(-22° F to +149° F), ≤95%RH
Dimension	Dual boards: 38 x 38 mm, board thickness 1.6 mm

Board Size



TOP

Main Board



---Note:The circle point to pin 1

Interface Descriptions

J1（Vertical SMT-8P-1.25MM）-----**12V Power and Network Interface**

Pin	Name	Function
1	12V_VIN	DC 12V IN
2	GND	GND
3	RX-	Network Differential Receive Signal 6
4	RX+	Network Differential Receive Signal 3
5	TX-	Network Differential Transmit Signal 2
6	TX+	Network Differential Transmit Signal 1
7	LED_LINK	Network Link LED
8	RST	Hardware Reset (like J7.11)

J2（Vertical SMT-5P-1.25MM）-----**USB Interface**

Pin	Name	Function
1	3V3	3.3V Power Output
2	USB_DM	USB Differential Data -
3	USB_DP	USB Differential Data +
4	GND	GND
5	WIFI_EN	Wi-Fi Power Enable

J3（Vertical SMT-2P-1.25MM）----**Speaker Interface**

Pin	Name	Function
1	SPK+	Speaker+(8Ω1W）
2	SPK-	Speaker- (8Ω1W）

J4（Vertical SMT-2P-1.25MM）----**MIC0 Interface**

Pin	Name	Function
1	MIC0	MIC0 Input
2	GND	GND

J5（Vertical SMT-4P-1.25MM）----**Serial Port Interface**

Pin	Name	Function
1	TX1	UART TX1
2	RX1	UART RX1
3	GND	GND
4	GPIO55/SPK_EN	GP1055, Reserved

J6（Vertical SMT-10P-1.25MM）-----**Alarm Interface**

Pin	Name	Function
1	3V3_NORMAL	3.3V Output
2	FTX	FUART Transmit
3	FRX	FUART Transmit
4	ALARM_IN1	Alarm Input 1, Active Low for Alarm
5	ALARM_IN2	Alarm Input 2, Active Low for Alarm
6	ALARM_OUT1	Alarm Output 1, Active High for Alarm
7	ALARM_OUT2	Alarm Output 2, Active High for Alarm
8	ALARM_IN0	Alarm Input 0, Active Low for Alarm
9	GND	GND
10	ALARM_OUT0	Alarm Output 0, Active High for Alarm

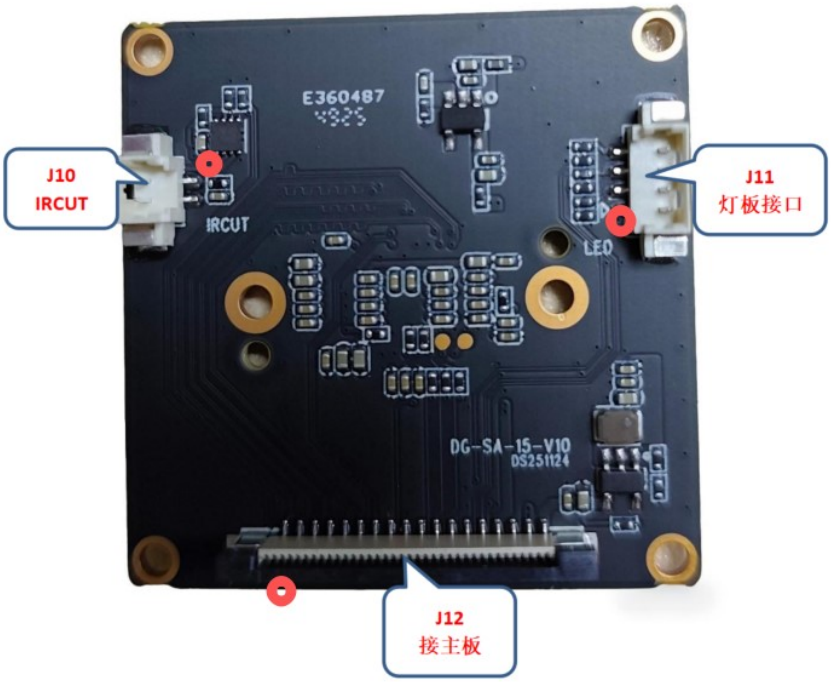
J7（2*6PVertical Dual Row FPC）----**TF Card Slot RESET**

Pin	Name	Function
1	GND	GND
2	SD_DATA2	TF Card Data 2
3	SD_DATA3	TF Card Data 3
4	SD_CMD	TF Card Command
5	SD_3V3	TF Card Power Supply
6	SD_CLK	TF Card Clock
7	GND	GND
8	SD_DATA0	TF Card Data 0
9	SD_DATA1	TF Card Data 1
10	SD_CDZ	
11	SW_RST	
12	GND	

J8（2*12PVertical Dual Row FPC）----**IO Expansion, Contact Developer for Requirements (SPI/12C/SDIO/PWM, etc.)**

J9　Debug Port: TX, RX, GND (in order)

Sensor



---Note:The circle point to pin 1

J10（Vertical SMT-2P-1.25MM）----**IRCUT**

Pin	Name	Function
1	IRCUTA	IRC Switch +
2	IRCUTB	IRC Switch -

J11（Vertical SMT-4P-1.25MM）----**Light Board Interface**

Pin	Name	Function
1	GND	GND
2	IR_CTRL	Default NC
3	WL_CTRL	White Light Enable, Active High, PWM Supported
4	ADC_DET	Photosensitive Detection (CDS, 3.3 V domain)

J12 Main board Connection